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*Frigyes, I.; Molnar, B.; Juhasz, L.; Papp, I.; Bodnar, Z.; Berces, J.; Som, F.; Kasa, A.;*

Satellite Systems for Mobile Communications and Navigation, 1996., Fifth International Conference on , 13-15 May 1996

Page(s): 47 -50

[\[Abstract\]](#) [\[PDF Full-Text \(364 KB\)\]](#) **IEEE CNF**
**2 Cycles of ECG parameter evolution during ischemic episodes**
*Presedo, J.; Fernandez, E.A.; Vila, J.; Barro, S.;*

Computers in Cardiology 1996 , 8-11 Sept. 1996

Page(s): 489 -492

[\[Abstract\]](#) [\[PDF Full-Text \(300 KB\)\]](#) **IEEE CNF**
**3 Probabilistic segmentation of volume data for visualization using SOM-PNN classifier**
*Feng Ma; Wenping Wang; Wai Wan Tsang; Zesheng Tang; Shaowei Xia; Xin Tong;*

Volume Visualization, 1998. IEEE Symposium on , 19-20 Oct. 1998

Page(s): 71 -78, 169

[\[Abstract\]](#) [\[PDF Full-Text \(1400 KB\)\]](#) **IEEE CNF**
**4 Keyword selection method for characterizing text document maps**
*Lagus, K.; Kaski, S.;*

Artificial Neural Networks, 1999. ICANN 99. Ninth International Conference on (Conf. Publ. No. 470) , Volume: 1 , 7-10 Sept. 1999

Page(s): 371 -376 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(552 KB\)\]](#) **IEEE CNF**

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**5 SOM hardware with acceleration module for graphical representation of the learning process**

*Porrmann, M.; Ruping, S.; Ruckert, U.;*

Microelectronics for Neural, Fuzzy and Bio-Inspired Systems, 1999. MicroNeuro '99. Proceedings of the Seventh International Conference on , 7-9 April 1999

Page(s): 380 -386

[\[Abstract\]](#) [\[PDF Full-Text \(124 KB\)\]](#) **IEEE CNF**

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**6 Coloring that reveals high-dimensional structures in data**

*Kaski, S.; Venna, J.; Kohonen, T.;*

Neural Information Processing, 1999. Proceedings. ICONIP '99. 6th International Conference on , Volume: 2 , 16-20 Nov. 1999

Page(s): 729 -734 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE CNF**

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**7 Digital libraries-classification and visualization techniques**

*Merkel, D.; Rauber, A.;*

Digital Libraries: Research and Practice, 2000 Kyoto, International Conference on , 13-16 Nov. 2000

Page(s): 434 -438

[\[Abstract\]](#) [\[PDF Full-Text \(652 KB\)\]](#) **IEEE CNF**

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**8 A new approach to hybrid SOM implementations for text classification**

*Gunther, P.; Chen, P.;*

Fuzzy Systems, 2001. The 10th IEEE International Conference on , Volume: 2 , 2-5 Dec. 2001

Page(s): 968 -971 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(576 KB\)\]](#) **IEEE CNF**

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**9 Adaptive reconstruction of freeform objects with 3D SOM neural network grids**

*Barhak, J.; Fischer, A.;*

Computer Graphics and Applications, 2001. Proceedings. Ninth Pacific Conference on , 16-18 Oct. 2001

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[\[Abstract\]](#) [\[PDF Full-Text \(803 KB\)\]](#) **IEEE CNF**

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**10 Texture synthesis using image pyramids and self-organizing maps***Parada, P.; Ruiz-del-Solar, J.;*

Image Analysis and Processing, 2001. Proceedings. 11th International Conference on , 26-28 Sept. 2001

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[\[Abstract\]](#) [\[PDF Full-Text \(544 KB\)\]](#) **IEEE CNF**

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**11 Parameterization and reconstruction from 3D scattered points based on neural network and PDE techniques***Barhak, J.; Fischer, A.;*

Visualization and Computer Graphics, IEEE Transactions on ; Volume: 7 Issue: 1 , Jan.-March 2001

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[\[Abstract\]](#) [\[PDF Full-Text \(1808 KB\)\]](#) **IEEE JNL**

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**12 Self-organizing maps for contingency analysis: visual classification and temporal evolution***Garcia-Lagos, F.; Joya, G.; Marin, F.J.; Sandoval, F.;*

IECON 02 [Industrial Electronics Society, IEEE 2002 28th Annual Conference of the] , Volume: 2 , 5-8 Nov. 2002

Page(s): 1451 -1456 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(469 KB\)\]](#) **IEEE CNF**

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**13 Visual data mining and monitoring in steel processes***Cuadrado, A.A.; Diaz, I.; Diez, A.B.; Obeso, F.; Gonzalez, J.A.;*

Industry Applications Conference, 2002. 37th IAS Annual Meeting. Conference Record of the , Volume: 1 , 13-18 Oct. 2002

Page(s): 493 -500 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(413 KB\)\]](#) **IEEE CNF**

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**14 An interactive tool for segmentation, visualization, and navigation of magnetic resonance images***Faulkner, A.; Bhandarkar, S.;*

Computer-Based Medical Systems, 2003. Proceedings. 16th IEEE Symposium , 26-27 June 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(317 KB\)\]](#) **IEEE CNF**

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15 **DNA classifications with self-organizing maps (SOMs)**

*Naenna, T.; Bress, R.A.; Embrechts, M.J.;*

Soft Computing in Industrial Applications, 2003. SMCia/03. Proceedings of the 2003 IEEE International Workshop on , 23-25 June 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(571 KB\)\]](#) **IEEE CNF**

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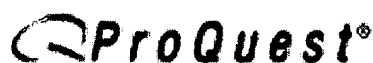
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(46 citations)In Proceedings of WSOM'97, Workshop on **Self-Organizing Maps**, Espoo, Finland, June 4-6, pages 310-315.set of HTML documents that can be viewed using a **graphical** WWW browser. The potential of the WEBSOM method

websom.hut.fi/websom/doc/ps/honkela97wsom.ps.gz

**One or more of the query terms is very common - only partial results have been returned. Try Google (CiteSeer).**Self Organization of a Massive Document Collection - Kohonen, al. (Correct)  
(41 citations)to textual similarities. It is based on the **Self-Organizing Map** (SOM) algorithm. As the feature vectorslevels before reaching the documents. To provide **guidance** to the exploration, an automatic method hasa textual document collection is organized onto a **graphical** map display that provides an overview of the

websom.hut.fi/websom/doc/ps/kohonen00trnn.ps.gz

SONIA: A Service for Organizing Networked Information.. - Sahami, Yusufali.. (1998)  
(Correct) (28 citations)the WEBSOM system [21]WEBSOM uses a **Self-Organizing Map** (SOM) [12] to group together related wordsalso designed with efficiency in mind, SenseMaker **GUI** Alta Vista DIALOG Proxy Proxy Proxy SONIA

robotics.stanford.edu/users/sahami/papers-dir/dl98-sonia.ps

Model-Based Learning for Mobile Robot Navigation from the.. - Tani (1996) (Correct)  
(18 citations)map by utilizing the idea of Kohonen's **Self-Organizing-Map** [25]Although this approach, which islocal representation. A mobile robot acquires a **graphical** representation of landmark types as it moves in

ftp.csl.sony.co.jp/CSL/CSL-Papers/94/SCSL-TR-94-020.ps.Z

The Self-Organizing Map in Industry Analysis - Simula, Vasara, Vesanto, Helminen (1999)  
(Correct) (8 citations)The **Self-Organizing Map** in Industry Analysis Olli Simula 1

based methods such as k-Nearest Neighbors (kNN) **graphical** dependency models and relational learning [3]

[www.cis.hut.fi/projects/monitor/publications/papers/iti.ps](http://www.cis.hut.fi/projects/monitor/publications/papers/iti.ps)

Methods for Interpreting a Self-Organized Map in Data Analysis - Kaski, Nikkilä, Kohonen (1998) (Correct) (7 citations)

2200, FIN-02015 HUT, FINLAND Abstract. The **Self-Organizing Map** (SOM) can be used for forming overviews of

data sets and for visualizing them on **graphical** map displays. Each map location represents

the values of the variable. Examples of **graphical** displays showing the contribution of two

[cochlea.hut.fi/~sami/papers/esann98\\_reprint.ps.gz](http://cochlea.hut.fi/~sami/papers/esann98_reprint.ps.gz)

Text Mining: The state of the art and the challenges - Tan (1999) (Correct) (6 citations)

clustering and visualization tool based on **Self-Organizing Map**. IBM's Technology Watch, developed jointly

automatically from sample documents and visually **guides** you to construct searches.

Inxight's LinguistX

groups or clusters of the documents in certain **graphical** representation. The following list is by no

[textmining.krdl.org.sg/docs/text\\_mining\\_KDAD99.ps](http://textmining.krdl.org.sg/docs/text_mining_KDAD99.ps)

A Metaphor Graphics Based Representation of Digital Libraries.. - Rauber, Bina (1999) (Correct) (4 citations)

a set of documents by their contents. The **self-organizing map** (SOM) is a popular unsupervised neural

network in conventional libraries, which can be used as **graphical** representations for the metadata of digital

libraries. The benefits of visualizing metadata using **graphical** metaphors, followed by some conclusions in

[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/rau\\_webvis99.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/rau_webvis99.ps.gz)

Coloring that Reveals High-Dimensional Structures in Data - Kaski, Venna, Kohonen (1999) (Correct) (3 citations)

structure is first discovered with the **Self-Organizing Map** (SOM) and then a new nonlinear data, namely, its cluster structure, on **graphical** map displays. In this paper we introduce a SOM algorithm can be used to form twodimensional **graphical** displays that are visual overviews of data

[www.cis.hut.fi/~sami/papers/iconip99.ps.gz](http://www.cis.hut.fi/~sami/papers/iconip99.ps.gz)

Browsing Digital Libraries with the Aid of Self-Organizing.. - Kaski, Honkela, Kohonen (1996) (Correct) (3 citations)

Browsing Digital Libraries with the Aid of **Self-Organizing Maps** Krista Lagus, Samuel Kaski, Timo Honkela,

what the information space looks like, and then by **guiding** one to the information of interest.

order of detail. The first two levels display the **graphical** map, first the general view and

then a closer

[websom.hut.fi/websom/doc/ps/lagus96.ps.gz](http://websom.hut.fi/websom/doc/ps/lagus96.ps.gz)

Optimizing the parSOM Neural Network Implementation for.. - Tomsich, Rauber, Merkl (2001) (Correct) (2 citations)

Abstract The **self-organizing map** is a prominent unsupervised neural network and the weight vector. The amount of adaptation is **guided** by a learning-rate that is gradually

t) h ci (t) x(t) m i (t)2) A simple **graphical** representation of a **self-organizing map's**  
[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/tom\\_padd00.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/tom_padd00.ps.gz)

parSOM: Using parallelism to overcome memory latency in.. - Tomsich, Rauber, Merkl (2000) (Correct) (2 citations)

Abstract. The **self-organizing map** is a prominent unsupervised neural network and the weight vector. The amount of adaptation is **guided** by a learningrate that is gradually

t) h ci (t) x(t) m i (t)3) A simple **graphical** representation of a **self-organizing map's**  
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Use of Shape Features in Content-Based Image Retrieval - Brandt (1999) (Correct) (2 citations)

image retrieval, image databases, **Self-Organizing Map**, neural computing Library code: to my instructor Dr. Jorma Laaksonen for his **guidance** and for reading and giving comments and

Element Method FFT Fast Fourier Transform GIF **Graphical** Interchange Format HSI Hue, Saturation,  
[www.cis.hut.fi/picsom/thesis-brandt.ps.gz](http://www.cis.hut.fi/picsom/thesis-brandt.ps.gz)

Multi-document Summarization by Visualizing Topical Content - Ando, Boguraev, Byrd, Neff (2000) (Correct) (1 citation)

(Hemmje et al.1994)and applications of **self-organizing map** utilizing neural network technique

with multiple general topics. Textual and **graphical** presentation Since our multi-document summaries

fully understanding the summary)additional **graphical** components are needed in the interface. To our

[www.cs.cornell.edu/people/kubotar/paper/summws00\\_toappear.pdf](http://www.cs.cornell.edu/people/kubotar/paper/summws00_toappear.pdf)

SOMLib: A Digital Library System Based on Neural Networks - Rauber, Merkl (1999) (Correct) (1 citation)

representation and query processing. The **self-organizing map**, a popular unsupervised neural network

of documents provided by the SOM with a **graphical** interpretation of metadata based on the Dublin

[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/rau\\_acmdl99.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/rau_acmdl99.ps.gz)

CIA's view of the world and what neural networks learn from.. - Merkl, Rauber (1998) (Correct) (1 citation)

on noisy patterns. In particular we rely on **self-organizing maps** which produce a map of

the document space

pattern. The amount of weight vector movement is **guided** by a so-called learning rate,  $\eta$ , decreasing in

in the output space. Consider Figure 1 for a **graphical** representation of **self-organizing maps**. The map

[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/mer\\_dexa98.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/mer_dexa98.ps.gz)

Self-Organizing Feature Extraction In Recognition Of Wood.. - Lampinen, Smolander (1996) (Correct) (1 citation)

into a small number of features with **self-organizing maps**. The histograms of the self-organized

out in cooperation with the ARGUS project in the **Graphical** Laboratory of Finnish Technical Research

[www.lce.hut.fi/publications/ps/Lampinen\\_IJPRAI96.ps](http://www.lce.hut.fi/publications/ps/Lampinen_IJPRAI96.ps)

Adaptive Recognition of Online, Cursive Handwriting - Schomaker, Helsper.. (1993) (Correct) (1 citation)

vectors that are clustered using a Kohonen **SelfOrganizing Map** as a feature quantizer. In the current

Allograph Labeling, is a manual process using a **graphical** pen-driven interface. A list of rules/criteria

<ftp.nici.kun.nl/pub/nici/papers/schomaker/igs-paris.ps.gz>

On the Similarity of Eagles, Hawks, and Cows: Visualization of .. - Merkl, Rauber (1997) (Correct) (1 citation)

Visualization of Semantic Similarity in **Self-Organizing Maps** Dieter Merkl, Andreas Rauber Institut für

using the adaptive coordinates of the units for **graphical** representation. Adaptation tends to be very

groups of animals results in almost overlapping **graphical** representation. This, however, is merely a

[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/mer\\_fns97.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/mer_fns97.ps.gz)

Representation of Document Archives for Interactive Exploration - Merkl, Rauber (Correct) interest. In particular, we rely on **self-organizing maps**, which produce a map of the document

labeling of the topical clusters and a metaphor-**graphical** representation of the documents, followed by

no longer represented as textual listings, but as **graphical** objects of different representation types such

[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/mer\\_delos00.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/mer_delos00.ps.gz)

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Free Software For Analyzing Aviris Imagery - Smith, Frolov (Correct)

informative three-band color combination, a **self-organizing map** classifier, and an auto-correlogram

Airborne Imaging Spectrometer Science Investigator's **Guide** to AIS Data, Jet Propulsion Laboratory Kohonen,

Analysis process provides an interactive **graphical** interface for working with hyperspectral images

[makalu.jpl.nasa.gov/docs/workshops/99\\_docs/55.pdf](http://makalu.jpl.nasa.gov/docs/workshops/99_docs/55.pdf)

"Andreas Rauber"? Conference Pages Are over There, German.. - Rauber, Bina (Correct)

digital library system a neural network, the **self-organizing map** (SOM) is used to organize documents into

having to read any description. This problem of **graphical** document representation has been analyzed in

document retrieval, content analysis and **graphical** representation. Section 3 then presents an

[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/rau\\_webvis00.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/rau_webvis00.ps.gz)

Methods for Exploratory Cluster Analysis - Kaski, Nikkilä, al. (2000) (Correct)

ordered map display constructed using the **Self-Organizing Map** algorithm. The detected structures can be

and hierarchical trees. Our alternative is a **graphical** map display, a regular grid on which closely

**Self-Organizing Map** algorithm. Intuitively the **graphical** map display then corresponds to a nonlinear but

[www.cis.hut.fi/~sami/papers/ssgrr00.ps.gz](http://www.cis.hut.fi/~sami/papers/ssgrr00.ps.gz)

A Neural Network Based Classifier and Biofeedback Device.. - Fasel, Bollacker, Ghosh (Correct)

Connectionist approaches, such as Kohonen's **self organizing map** algorithm, seem a logical approach to this

network architecture is employed to build a **graphical** biofeedback device that allows the user to

[www.ece.utexas.edu/~fasel/ICJNN\\_draft/ICJNN\\_Final.pdf](http://www.ece.utexas.edu/~fasel/ICJNN_draft/ICJNN_Final.pdf)

Unsupervised Learning - Buhmann, Maass, Ritter, Tishby (1999) (Correct)

University of Aachen, Germany Kohonen's **self-organizing map** (SOM) visualizes the structure of data

Framework for Learning 23 28 Clustering in **Graphical** Models 24 29 Minimum Description Length

with W. Bialek and F. Pereira: 28 Clustering in **Graphical Models** Volker Tresp Siemens AG, Munich,  
ftp.dagstuhl.de/pub/Reports/99/99121.ps.gz

On the Choice of Organization Measures for Self-Organizing.. - Polani (1995) (Correct)  
: 6 3 Organization Measures for **self-organizing maps** 8 3.1 Inversion measures :  
can be obviously detected by inspection of the **graphical** representation of SOFMs during  
training. But  
ftp.informatik.uni-mainz.de/pub/papers/techrep/1995/polani\_organization-measures\_95-1.ps.:

Utilizing the Topology Preserving Property of Self-Organizing .. - van der Putten (1996) (Correct)  
the Topology Preserving Property of **Self-Organizing Maps** for Classification Peter van der  
Putten  
Interface Based On The Movies Class Library ,Forms **Gui** Library And Silicon Graphics Gl  
(graphics  
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Dynamic Extentions of Self-Organizing Maps - Göppert, Rosenstiel (1994) (Correct)  
Dynamic Extentions of **Self-Organizing Maps** Josef G OPPERT and Wolfgang  
ROSENSTIEL  
zero, in order to come to a more discriminative **graphical** representation. A reduction to  
zero would  
www.ti.informatik.uni-tuebingen.de/~goeppert/papers/sorrento94.ps.gz

The Adaptive Recognition of On-line.. - Schomaker.. (1993) (Correct)  
vectors that are clustered using a Kohonen **Self-Organizing Map** as a feature quantizer. In  
the current  
In a practical situation, the user will see the **graphical** user interface of his own computer,  
e.g.  
Allograph Labeling, is a manual process using a **graphical** pen-driven interface. A list of  
rules/criteria  
hwr.nici.kun.nl./papers/schomaker/iwfhr3-buffalo-demo.ps.gz

Data Mining and Document Modeling - Honkela (Correct)  
neural network techniques, e.g. Kohonen's **self-organizing map**, are used in clustering  
and data  
between attributes. 6.2.3 Visualization Several **graphical** means have been proposed for  
visualizing  
set of HTML documents that can be viewed using a **graphical** WWW browser, like Mosaic  
or Netscape, at the  
saato014.hut.fi/Hyotyniemi/publications/.97\_report106/HONKELA.ps

*Documents 21 to 30* [Previous 20](#)

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